IN THE CLAIMS

This listing of claims replaces all prior versions and listings of the claims in the abovereferenced application.

1. (Previously Presented) A method of fabricating a set of semiconducting nanowires having a desired wire diameter, the method comprising the steps of:

providing a set of pre-fabricated semiconducting nanowires, at least one pre-fabricated semiconducting nanowire having a wire diameter larger than the desired wire diameter, and

reducing the wire diameter of the at least one pre-fabricated nanowire by etching, the etching being induced by electromagnetic radiation which is absorbed by the at least one pre-fabricated nanowire, a minimum wavelength of the electromagnetic radiation being chosen such that the absorption of the at least one pre-fabricated nanowire being significantly reduced when the at least one pre-fabricated nanowire reaches the desired wire diameter.

2. (Previously Presented) A method as claimed in claim 1, wherein:

a radiation source is used which emits the electromagnetic radiation inducing the etching and electromagnetic radiation having a wavelength shorter than the minimum wavelength, and

the electromagnetic radiation emitted by the radiation source is spectrally filtered for substantially reducing electromagnetic radiation having a wavelength shorter than the minimum wavelength.

- 3. (Previously Presented) A method as claimed in claim 1, wherein prior to the step of reducing the wire diameter substantially all the pre-fabricated semiconducting nanowires have a diameter larger than or equal to the desired wire diameter.
- 4. (Previously Presented) A method as claimed in claim 1, wherein the light inducing the etch treatment is linearly polarized along an axis.
- 5. (Previously Presented) A method as claimed in claim 1, wherein the light inducing the etch treatment has a first component being linearly polarized along a first axis and a second

component being linearly polarized along a second axis forming an angle larger than zero with the first axis.

- 6. (Original) A method as claimed in claim 5, the first component has a first spectrum with a first minimum wavelength and the second component has a second spectrum with a second minimum wavelength different from the first minimum wavelength.
- 7. (Original) A method as claimed in claim 5, wherein the first component has a first intensity and the second component has a second intensity different from the first intensity.
- 8. (Previously Presented) A method as claimed in claim 1, wherein the desired wire diameter comprises zero.
- 9. (Original) A method as claimed in claim 8, wherein the light inducing etching of nanowires having a desired wire diameter of zero is linearly polarized.
- 10. (Previously Presented) A method as claimed in claim 1, wherein the pre-fabricated semiconducting nanowires are supported by a substrate.
- 11. (Previously Presented) A method as claimed in claim 10, wherein the substrate comprises an electrical conductor, the pre-fabricated semiconducting nanowires being electrically conductively connected to the electrical conductor.
- 12. (Previously Presented) A method as claimed in claim 10, wherein the substrate has a surface constituted by a part supporting the pre-fabricated semiconducting nanowires and another part being free from the part, at least the other part being etch resistant.
- 13. (Previously Presented) A method as claimed in claim 12, wherein the substrate comprises a first layer which is not etch resistant, and a second layer which is etch resistant, the second layer constituting the other part of the surface.
- 14. (Previously Presented) A method as claimed in claim 13, wherein the second layer is connected to the first layer by a chemical bond.

- 15. (Previously Presented) A method as claimed in claim 13, wherein the second layer is composed of one or more materials selected from alkyltriethoxysiloxane and alkyltrimethoxysiloxane.
- 16. (Previously Presented) A method as claimed in claim 10, wherein the step of providing the pre-fabricated semiconducting nanowires comprises the following sub-steps:

providing the substrate, a surface of the substrate being etchable, and growing semiconducting nanowires on the surface of the substrate, the grown semiconducting nanowires being the pre-fabricated semiconducting nanowires,

and after the step of providing the pre-fabricated semiconducting nanowires and prior to the step of reducing the wire diameter of the at least one pre-fabricated nanowire by etching the exposed surface of the substrate is covered by an etch resistant layer.

- 17. (Previously Presented) A method as claimed in claim 10, wherein the pre-fabricated semiconducting nanowires are distributed over the surface, a first part of the surface being irradiated by light for inducing the etch treatment, pre-fabricated semiconducting nanowires in a second part of the surface being prevented from etching.
- 18. (Previously Presented) A method as claimed in claim 10, wherein the pre-fabricated semiconducting nanowires are distributed over the surface, a first part of the surface area being irradiated by a first light intensity, a second part of the surface free from the first part of the surface being irradiated by a second light intensity smaller than the first light intensity.
- 19. (Previously Presented) A method as claimed in claim 10, wherein the pre-fabricated semiconducting nanowires are distributed over the surface, a first part of the surface being irradiated by light having a first minimum wavelength, a second part of the surface being irradiated by light having a second minimum wavelength different from the first minimum wavelength.
- 20. (Currently Amended) A method of manufacturing an electric device comprising a set of nanowires having a desired wire diameter, each nanowire of the set being electrically connected to a first conductor and to a second conductor, the method comprising the steps of:

fabricating the set of semiconducting nanowires having the desired wire diameter according to claim 1 by:

providing a set of pre-fabricated semiconducting nanowires, at least one prefabricated semiconducting nanowire having a wire diameter larger than the desired wire diameter, and

reducing the wire diameter of the at least one pre-fabricated nanowire by
etching, the etching being induced by electromagnetic radiation which is absorbed by
the at least one pre-fabricated nanowire, a minimum wavelength of the
electromagnetic radiation being chosen such that the absorption of the at least one prefabricated nanowire being significantly reduced when the at least one pre-fabricated
nanowire reaches the desired wire diameter, and

electrically contacting the nanowires of the set to a first conductor and to a second conductor.

- 21. (Previously Presented) An electric device comprising a set of semiconducting nanowires, the set comprising a first subset of nanowires each having a first wire diameter and a second subset of nanowires each having a second wire diameter different from the first wire diameter, the nanowires of the first subset being attached to a first part of a substrate, the nanowires of the second subset being attached to a second part of the substrate free from the first part.
- 22. (Previously Presented) An electric device as claimed in claim 21, wherein the nanowires of the first subset are electrically connected to a conductor, the nanowires of the second subset are electrically connected to a further conductor, the conductor being electrically insulated from the further conductor.
- 23. (Previously Presented) An electric device as claimed in claim 21, wherein the nanowires comprises a p-doped part and a n-doped part forming a p-n junction.
- 24. (Previously Presented) An electric device as claimed in claim 23, wherein the n-doped part is electrically connected to a first conductor having a first distance to the p-n junction, the p-doped part is electrically connected to a second conductor having a second distance to the p-n junction smaller than the first distance.

- 25. (Previously Presented) An electric device as claimed in claim 23, wherein the n-doped part has a wire diameter which is larger than a wire diameter of the p-doped part.
- 26. (Previously Presented) An apparatus for light induced etching of a set of pre-fabricated semiconducting nanowires, at least one pre-fabricated semiconducting nanowire having a wire diameter larger than a desired wire diameter, the apparatus comprising:
- a light source for emitting light inducing the etching of the nanowires, wherein the light is absorbed by at least one of the nanowires, and wherein a minimum wavelength of the light is chosen such that the absorption of the at least one nanowire is significantly reduced when the at least one nanowire reaches the desired diameter; and
- a monitor unit for monitoring a light signal emitted by the nanowires during the etching, the light signal being indicative for the wire diameter of the nanowires.
- 27. (Previously Presented) An apparatus as claimed in claim 26, further comprising a system control unit 36 for controlling the light source in dependence of the light signal monitored by the monitor unit.
- 28. (Previously Presented) An apparatus as claimed in claim 26, further comprising a polarizer for polarizing the light inducing the etching.
- 29. (Previously Presented) An apparatus as claimed in claim 26, further comprising an optical element for rotating a polarization of the light inducing the etching.